Date Prepared: 10/22/01 Everstar Hardener Part B

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SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Material Identity

Product Name:

Everstar Hardener Part B

Product Numbers:

100614B, 100621, 100624, 100647 and

100649

Product Use:

Epoxy Hardener

Company

Emergency Telephone Numbers:

Fibre Glass-Evercoat

CHEMTREC: 1-800-424-9300

a Division of Illinois Tool Works Inc.

CANUTEC: 1-613-996-6666

6600 Cornell Road Cincinnati, Ohio USA

Phone: 513-489-7600

Prepared By: Safety Department

SECTION 2. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient(s)	CAS Number	EINECS Number	% (by weight)
Polyamide Polymer	Proprietary	Proprietary	85 – 90
Phenol	108-95-2	203-632-7	5 – 10
Formaldehyde	50-00-0	200-001-8	1 – 5

OSHA Regulatory Status: This material is classified as hazardous under OSHA regulations.

SECTION 3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

WARNING! CORROSIVE MATERIAL. HARMFUL IF INHALED. MAY CAUSE ALLERGIC SKIN REACTION. POTENTIAL CANCER HAZARD. CONTAINS FORMALDEHYDE WHICH CAN CAUSE CANCER AND RESPIRATORY SENSITIZATION.

Potential Health Effects

Acute Effects (Short Term):

Eve:

Contact with liquid or vapor may result in severe irritation, redness, tearing, and blurred vision. Direct contact is corrosive to eyes. May

cause permanent damage, including blindness.

Skin:

May cause severe skin irritation and allergic skin reaction.

Prolonged or repeated contact is corrosive to skin and may cause permanent skin damage. Symptoms may include redness, burning,

drying and cracking of skin, and skin burns.

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Swallowing: Ingestion of this material may be fatal. Ingestion may cause severe gastrointestinal irritation, nausea, diarrhea, and vomiting.

Swallowing of a corrosive material may result in severe ulceration, inflammation and possible perforation of the upper alimentary tract, with hemorrage and fluid loss. Aspiration of this material into the lungs due to vomiting may produce chemical pneumonitis which can be fatal.

Inhalation: Excessive inhalation of vapors may cause severe nasal and respiratory irritation, acute nervous system depression, fatigue, weakness, nausea, headache, and dizziness. Prolonged or repeated contact may cause severe irritation to the respiratory tract, liver and kidney damage, even death. Symptoms usually occur at air concentrations higher than the recommended exposure

Chronic Effects of Overexposure (Long Term):

limits (See Section 8).

Formaldehyde: In humans, formaldehyde exposure has been associated with cancers of the lung, nasopharynx and oropharynx, and nasal passages. Prolonged and repeated exposure to formaldehyde may result in respiratory impairment. Some persons have developed asthma or bronchitis following exposure to formaldehyde. Inhalation may cause lung oedema, symptoms may not become manifest until a few hours have passed.

Phenol: This substance and its vapor is very corrosive to the eyes, skin and respiratory tract. Inhalation may cause lung oedema, symptoms may not become manifest until a few hours have passed. The substance may have effects on the central nervous system, heart and kidneys, resulting in convultions, coma, cardiac disorders, respiratory failure, and collapse. This substance will have long term effects on the liver and kidneys.

Cancer Information: The International Agency for Research on Cancer (IARC) has classified formaldehyde as a group 2A carcinogen (probably carcinogenic to humans). The US Occupational Safety and Health Administration (OSHA) in its formaldehyde standard (29CFR 1910.1048), considers formaldehyde a carcinogen.

Other Health Effects: Effects may be delayed or aggravated by physical effort.

Primary Route(s) of Entry: Inhalation, Skin contact, Eye contact, Ingestion, Skin absorption.

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SECTION 4. FIRST AID MEASURES

Eyes: Flush eyes gently with water for at least 15 minutes. Seek

immediate medical attention.

Skin: Remove contaminated clothing. Wash exposed area with soap and

water for 15 minutes. Seek immediate medical attention. Launder

clothing before reuse.

Swallowing: Consult a physician or poison control center immediately. DO NOT

INDUCE VOMITING. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the

head down. If possible, do not leave individual unattended.

Inhalation: If symptoms develop, immediately move individual away from

exposure and into fresh air. Seek immediate medical attention; keep person warm and quiet. If person is not breathing, begin

artificial respiration. If breathing is difficult, oxygen may be benificial

if administered by trained personnel.

SECTION 5. FIRE FIGHTING MEASURES

Flash Point: >200 °F (>93.3 °C)

Explosive Limit: Lower: N/A Upper: N/A

Autoignition Temperature: N/E

OSHA Flammability Class: Combustible Liquid - Class IIIB

Hazardous Products of Combustion: May form toxic and corrosive gases:

carbon dioxide, carbon monoxide and various hydrocarbons.

Fire and Explosion Hazards: Vapors are heavier than air and may travel along the ground or may be moved by ventilation and ignited by pilot lights, other flames, sparks, heaters, smoking, electric motors, static discharge, or other ignition sources at locations distant from material handling point.

Extinguishing Media: Regular foam, carbon dioxide, dry chemical.

Fire Fighting Instructions: Water may be used to keep fire-exposed containers cool until fire is out. Wear a self-contained breathing apparatus NIOSH approved with a full facepiece operated in the positive pressure demand mode with appropriate turn-out gear and chemical resistant personal protective equipment.

NFPA Rating: Health - 3, Flammability - 1, Reactivity - 0

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SECTION 6. ACCIDENTAL RELEASE MEASURES

In Case of Spill: Eliminate all sources of ignition such as flares, flames (including pilot lights), and electrical sparks. Ventilate the area. Wear proper protective equipment (Section 8). Avoid breathing vapors. Collect with an inert absorbant and dispose of properly.

SECTION 7. HANDLING AND STORAGE

Handling: All hazard precautions given in the data sheet must be observed. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Use only with adequate ventilation. Do not breathe sanding dust, vapors or spray mist. Do not take internally. Close container after each use. Keep out of reach of children.

Storage: Store material in a cool, well-ventilated area. For maximum product quality, avoid prolonged storage at temperatures above 75°F (25°C). Do not use or store near heat, sparks, or open flame. Keep container tightly closed. Avoid contact with incompatible materials.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye Protection: Chemical splash goggles in compliance with OSHA regulations are

recommended.

Skin Protection: Protective gloves and proper clothing should be worn to prevent

skin contact. Gloves should be made of neoprene or natural rubber. A barrier cream may be used for additional skin protection. To prevent repeated or prolonged skin contact, wear impervious

clothing and boots.

Respiratory Protection: Use a NIOSH approved respirator designed to remove

particulate matter and organic solvent vapors.

Engineering Controls: Provide sufficient mechanical (general and/or local exhaust)

ventilation to maintain exposure below acceptable limits.

Explosion-proof ventilation system is acceptable.

Exposure Guidelines:

Hazardous Ingredients	CAS Number	OSHA PEL/TWA	ACGIH TLV
Phenol	108-95-2	5 ppm	5 ppm
Formaldehyde C- ceiling	50-00-0	0.75 ppm	0.3 ppm C

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point:	N/E	Vapor Density:	Heavier than air.
Specific Gravity / Density:	1.078/ 8.98 lbs/gal	Percent Volatiles by weight:	10 - 15 %
Evaporation Rate:	Slower than ethyl ether.	Physical State:	Liquid
Melting Point:	N/E	pH:	Neutral
Odor:	Mild odor.	Solubility:	Insoluble in water.
Vapor Pressure:	1 mmHg @68 °F/20°C (formaldehyde)	Appearance:	Clear Yellow Liquid
Octanol/Water Partition	N/E	VOC (material): calculated	1.08 lbs/gal

SECTION 10. STABILITY AND REACTIVITY

Hazardous Polymerization: Product will not undergo hazardous polymerization.

Hazardous Decomposition: May form toxic and corrosive gases: carbon

dioxide, carbon monoxide and various hydrocarbons.

Chemical Stability: Stable under normal handling conditions.

Incompatibility: Avoid contact in uncontrolled conditions with: strong acids,

strong oxidizing agents and strong bases.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute Toxicity Data:

Ingredient	CAS#	LD ₅₀ Oral-Rat	LC ₅₀ Inhalation-Rat
Phenol	108-95-2	317 mg/kg	316 mg/m ³
Formaldehyde	50-00-0	800 mg/kg	590 mg/m ³

Carcinogenicity: See Cancer Information, Section 3.

Mutagenicity: Formaldehyde is positive for mutagentic properties as an initiator

and a promoter.

Teratogenicity: No significant evidence found.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity: Phenol is toxic to aquatic organisms and should not be released to sewage, draining systems or any body of water exceeding concentrations of approved limits under applicable regulations and permits.

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SECTION 13. DISPOSAL CONSIDERATION

RCRA Hazardous Waste: This material as supplied, if discarded, would not be regulated as a hazardous waste under RCRA (40 CFR 261). Dispose of in accordance with applicable federal, state, and local regulations.

RCRA Hazard Class: This material would be regulated as EPA non-RCRA.

SECTION 14. TRANSPORT INFORMATION

DOT Description: The DOT Classification for shipping is dependent on quantity, type of packaging (a kit may include other components), or method of shipment.

SECTION 15. REGULATORY INFORMATION

US Federal Regulations

TSCA (Toxic Substances Control Act) Status

TSCA (USA) The intentional ingredients of this product are listed.

CERCLA RQ - 40 CFR 302.4(a)

Component	RQ (lbs.)
Formaldehyde	100
Phenol	1000

SARA Title III: Section 302- Extremely Hazardous Substances

Component	CAS Number	<u>Percentage</u>
Formaldehyde	50-00-0	1 – 5 %
Phenol	108-95-2	5 – 10 %

SARA Title III: Section 313- Toxic Chemical List

Component	CAS Number	Percentage
Formaldehyde	50-00-0	1 – 5 %
Phenol	108-95-2	5 – 10 %

International Regulations

EINECS (Europe) The intentional ingredients of this product are listed. **DSL (Canada)** The intentional ingredients of this product are listed.

WHMIS Classification

Health Hazard: D1A, D1B, D2A, D2B (Very toxic effects)

Physical Hazard: E (Corrosive)

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State and Local Regulations California Proposition 65:

This product contains the following chemical(s) known to the state of California to cause cancer. FORMALDEHYDE

This product contains the following chemical(s) known to the state of California to cause birth defects or reproductive harm. NONE

SECTION 16. OTHER INFORMATION

HMIS Rating: Health – 3*, Flammability - 1, Reactivity - 0 Key- 0=Least, 1=Slight, 2=Moderate, 3=Serious, 4=Extreme, *=Chronic Effects

Other Precautions for Use: This product must be mixed with Everstar Resin prior to use. Please refer to the Material Safety Data Sheet (#100614A) for resin before using.

Additional Information may be obtained by calling the Evercoat MSDS Hotline at 1-800-729-7600.

NOTICE: The information accumulated herein is believed to be correct as of the date issued from sources, which are believed to be accurate and reliable. Since it is not possible to anticipate all circumstances of use, recipients are advised to confirm, in advance of need, that the information is current, applicable and suitable to their circumstances.